

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1214018

Luminaire Tested: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

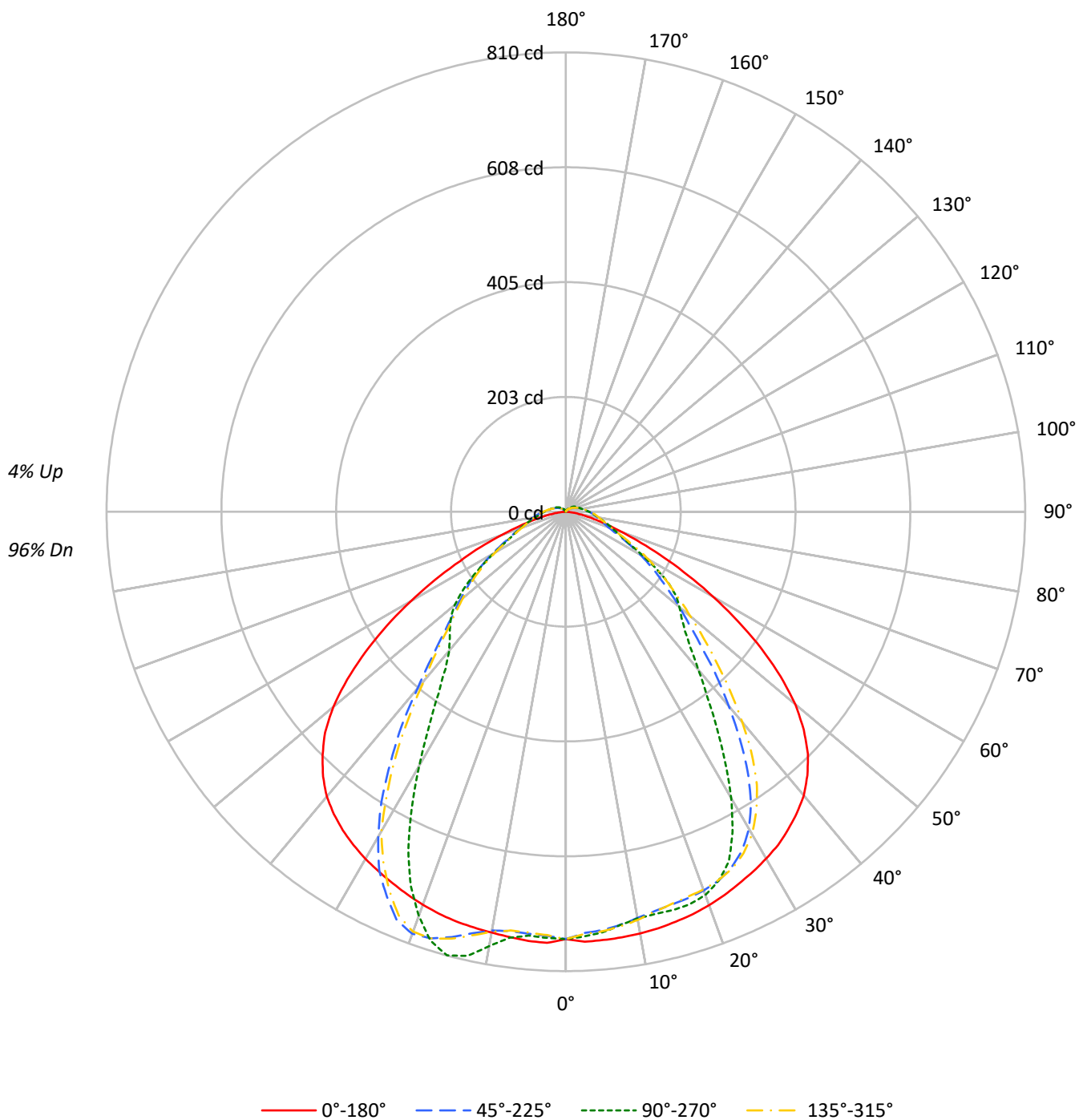
Lumens per Lamp: N/A
Luminaire Lumens: 1796.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12176	12176	12176	12176
5°	12231	11693	12257	11786
10°	12254	11207	12230	11968
15°	12314	11057	12308	12311
20°	12414	10881	12401	11470
25°	12528	10323	12521	9975
30°	12722	8947	12729	7927
35°	12924	7235	12962	6123
40°	13091	5826	13145	5133
45°	12985	4934	13051	4804
50°	12358	4543	12531	4442
55°	10893	4083	11165	3713
60°	8762	3124	9228	2866
65°	6444	2392	6944	2267
70°	4315	2063	4864	1973
75°	2760	1862	3210	1761
80°	1711	1737	2007	1597
85°	800	1732	1049	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 13051 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	4.0
10°-20°	212.9	11.9
20°-30°	323.7	18.0
30°-40°	347.3	19.3
40°-50°	301.4	16.8
50°-60°	223.4	12.4
60°-70°	128.0	7.1
70°-80°	70.9	3.9
80°-90°	43.1	2.4
90°-100°	28.1	1.6
100°-110°	18.8	1.0
110°-120°	12.7	0.7
120°-130°	7.8	0.4
130°-140°	4.1	0.2
140°-150°	1.9	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	608.2	33.9
0°-40°	955.4	53.2
0°-60°	1480.2	82.4
0°-90°	1722.2	95.9
90°-120°	59.6	3.3
90°-150°	73.3	4.1
90°-180°	74.0	4.1
0°-180°	1796.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	753	753	753	753	753	
5°	758	744	760	750	758	72
15°	748	727	748	810	748	212
25°	723	680	723	657	723	334
35°	684	463	686	392	684	428
45°	604	297	607	289	604	462
55°	421	223	432	202	421	373
65°	191	113	206	107	191	193
75°	54	72	63	68	54	62
85°	7	49	10	45	7	10
90°	0	41	1	38	0	0
95°	0	34	0	32	0	0
105°	0	25	0	24	0	0
115°	0	21	0	19	0	0
125°	0	16	0	13	0	0
135°	0	10	0	8	0	0
145°	0	6	1	5	0	0
155°	1	3	1	2	1	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	758.8	756.9	756.1	754.5	755.7	760.4	757.3	752.2	752.6	743.6	748.3
5°	758.0	755.7	754.5	753.0	753.8	758.0	754.9	749.9	749.5	740.5	744.8
7.5°	756.9	754.5	752.6	751.4	751.8	755.3	751.4	745.6	744.4	734.7	738.6
10°	754.9	753.4	750.7	748.7	748.3	752.2	746.0	740.1	737.4	727.3	731.2
12.5°	752.2	749.9	747.2	743.6	743.3	745.6	740.5	732.4	729.6	721.5	725.7
15°	748.3	745.6	742.5	738.6	736.6	738.2	732.0	724.6	724.2	717.2	723.0
17.5°	744.0	740.1	736.6	731.2	728.5	729.6	724.6	718.0	718.7	714.5	721.1
20°	738.2	733.9	728.5	723.0	719.1	721.1	717.6	712.5	713.7	710.6	716.4
22.5°	731.6	725.7	719.1	712.9	709.8	712.5	709.8	705.5	705.9	704.0	707.5
25°	723.0	716.4	708.6	700.8	699.3	701.2	699.7	696.2	694.6	691.5	693.1
27.5°	715.2	707.8	698.1	689.9	687.2	691.1	687.6	681.8	677.5	673.2	670.1
30°	706.3	697.3	686.4	677.1	674.8	676.3	671.3	662.3	651.0	645.6	637.0
32.5°	696.6	684.9	671.3	660.8	659.2	658.0	648.7	635.9	618.3	607.4	594.2
35°	683.7	670.9	654.5	641.7	639.4	632.7	617.6	600.4	577.9	559.2	536.6
37.5°	669.3	654.1	637.0	619.9	613.3	600.1	578.7	560.8	526.5	503.9	476.7
40°	653.0	634.7	613.7	593.1	582.2	560.8	536.2	509.8	476.7	446.3	423.4
42.5°	630.4	611.0	586.0	563.1	544.4	516.0	487.2	449.8	419.5	393.8	370.5
45°	603.6	580.2	551.4	523.8	500.0	466.2	432.3	395.0	369.7	339.7	323.8
47.5°	568.9	543.6	512.9	482.1	451.0	413.7	378.2	342.4	317.1	295.7	284.1
50°	528.1	504.7	470.9	434.3	400.0	361.1	325.7	298.9	274.3	261.1	252.2
52.5°	477.5	455.7	421.1	381.4	348.3	310.1	277.8	256.1	238.5	228.8	225.7
55°	421.1	402.0	367.7	330.8	296.9	261.9	237.4	218.3	207.0	201.2	201.6
57.5°	360.7	345.9	313.6	280.6	248.7	222.2	200.0	184.8	176.3	175.9	177.1
60°	300.4	289.5	261.5	233.1	205.1	183.7	167.3	156.8	151.4	151.8	151.4
62.5°	242.8	232.7	212.5	189.1	166.9	152.5	137.8	133.5	128.8	128.4	128.4
65°	191.1	183.3	166.9	150.2	133.5	124.1	116.7	111.7	108.2	107.4	107.8
67.5°	143.6	140.5	129.2	117.9	107.4	101.6	95.3	94.2	91.4	91.4	92.2
70°	107.0	104.7	98.5	91.8	87.6	83.7	80.6	80.6	80.2	79.8	81.7
72.5°	77.4	77.8	75.9	70.8	70.4	69.7	68.9	70.0	70.4	71.6	73.9
75°	54.5	55.6	55.6	54.9	56.4	58.4	59.5	61.5	63.8	65.4	68.1
77.5°	38.5	38.5	40.5	42.8	45.9	49.4	52.5	55.3	58.4	60.3	62.7
80°	24.9	26.1	29.2	33.5	37.7	42.4	46.7	50.2	53.3	56.4	58.0
82.5°	14.8	16.7	20.6	26.1	31.5	37.4	41.6	45.9	49.4	52.5	53.7
85°	7.4	10.1	14.8	20.6	26.5	32.7	38.1	42.0	45.9	48.6	50.2
87.5°	2.3	5.4	10.5	16.0	22.2	28.4	34.2	38.5	42.0	44.4	45.9
90°	0.0	2.7	7.4	13.2	19.1	25.3	30.7	35.4	38.9	40.9	42.0
92.5°	0.0	1.6	5.8	10.9	16.3	22.6	28.0	32.3	35.4	37.4	38.1
95°	0.4	1.2	4.3	9.0	14.4	20.2	25.3	29.2	32.3	34.2	34.6
97.5°	0.4	0.8	3.5	7.4	12.5	17.9	23.0	26.9	29.2	31.1	31.5
100°	0.4	0.8	2.7	6.6	10.9	16.0	20.6	24.1	26.9	28.4	28.8
102.5°	0.4	0.4	2.3	5.4	9.7	14.0	18.3	21.8	24.1	25.7	26.5
105°	0.4	0.4	1.9	4.7	8.6	12.5	16.3	19.8	21.8	23.3	24.1
107.5°	0.4	0.4	1.6	3.9	7.4	10.9	14.8	17.5	19.8	21.4	22.2
110°	0.4	0.4	1.2	3.5	6.2	9.7	12.8	15.6	17.9	19.5	20.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.4	1.2	3.1	5.4	8.6	11.3	14.0	16.0	17.5	18.7
115°	0.4	0.4	1.2	2.7	5.1	7.4	10.1	12.5	14.4	16.0	17.1
117.5°	0.4	0.4	1.2	2.3	4.3	6.6	9.0	11.3	12.8	14.4	15.6
120°	0.4	0.4	0.8	1.9	3.9	5.8	7.8	9.7	11.7	13.2	14.4
122.5°	0.4	0.4	0.8	1.9	3.1	5.1	7.0	8.6	10.5	11.7	12.8
125°	0.4	0.4	0.8	1.6	2.7	4.7	6.2	7.8	9.0	10.5	11.7
127.5°	0.4	0.4	0.8	1.6	2.3	3.9	5.4	7.0	8.2	9.3	10.1
130°	0.4	0.4	0.8	1.2	1.9	3.1	4.7	5.8	7.4	8.2	9.0
132.5°	0.4	0.4	0.4	1.2	1.6	2.3	3.5	5.1	6.2	7.4	7.8
135°	0.4	0.4	0.4	0.8	1.6	1.9	2.7	3.9	5.1	6.2	7.0
137.5°	0.4	0.4	0.4	0.8	1.2	1.9	2.3	3.1	4.3	5.1	6.2
140°	0.4	0.4	0.4	0.8	1.2	1.6	1.9	2.7	3.5	4.3	5.1
142.5°	0.4	0.4	0.4	0.8	0.8	1.2	1.6	2.3	2.7	3.5	4.3
145°	0.4	0.4	0.4	0.8	0.8	1.2	1.6	1.9	2.3	2.7	3.5
147.5°	0.4	0.4	0.4	0.8	0.8	0.8	1.2	1.6	1.9	2.3	2.7
150°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	1.9	2.3
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.9
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	1.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	746.8	747.5	752.2	751.8	751.0	750.3	750.3	749.5	750.3	752.2	751.4
5°	742.9	744.0	747.5	747.2	746.4	746.0	745.6	744.4	745.2	747.9	747.2
7.5°	735.9	737.0	740.1	738.6	737.4	738.2	736.3	735.1	736.6	739.4	739.0
10°	728.5	729.2	733.1	732.4	730.4	730.8	728.9	728.1	730.0	731.6	732.0
12.5°	723.4	726.1	729.6	729.2	728.9	729.2	727.3	726.5	727.7	729.2	728.9
15°	722.2	725.7	729.6	729.6	730.0	730.4	728.5	727.3	728.5	729.6	729.2
17.5°	721.1	725.4	728.9	728.5	728.9	729.6	726.5	725.7	727.3	728.9	728.1
20°	717.2	721.1	723.4	722.6	722.6	723.0	719.1	719.1	721.5	722.6	723.0
22.5°	706.3	711.0	711.0	709.0	709.0	707.5	706.3	704.0	706.7	708.6	710.2
25°	689.9	691.9	689.6	685.3	682.9	681.0	675.5	680.2	680.2	686.1	688.0
27.5°	667.0	662.7	656.1	647.1	645.2	639.0	635.5	636.6	638.6	646.8	653.0
30°	629.2	616.4	605.1	601.2	592.7	586.4	580.2	583.3	586.8	591.5	604.3
32.5°	579.4	567.0	548.7	542.1	533.1	525.3	517.9	522.6	528.8	532.0	546.0
35°	522.2	507.4	490.7	479.4	470.1	465.8	456.5	463.1	469.7	472.0	484.1
37.5°	461.5	446.3	431.6	421.8	412.9	410.2	403.9	408.6	413.7	417.2	427.3
40°	403.9	389.9	378.6	372.0	365.8	363.5	361.1	363.1	367.0	369.7	377.5
42.5°	354.5	343.2	335.4	331.5	327.3	324.2	324.5	325.3	327.3	333.1	336.6
45°	311.3	304.7	299.6	298.9	296.1	295.7	295.4	296.9	298.1	301.6	304.3
47.5°	276.7	274.0	272.8	274.3	275.5	274.0	274.7	276.7	279.0	279.0	278.6
50°	249.4	250.2	251.8	255.3	257.6	258.4	259.2	261.5	261.9	262.7	261.5
52.5°	227.3	228.0	232.3	237.8	240.5	241.7	243.2	245.5	245.5	246.3	244.8
55°	204.7	205.9	210.1	215.6	217.9	219.5	221.0	222.6	223.8	225.3	224.1
57.5°	179.8	183.3	186.0	187.6	189.1	190.3	191.5	191.8	194.2	194.6	196.5
60°	153.3	154.1	156.8	156.4	155.3	158.4	156.8	159.5	162.3	165.8	166.2
62.5°	128.0	128.4	130.4	129.6	131.1	130.8	131.9	131.9	133.9	135.4	137.4
65°	108.2	108.6	110.1	110.1	109.7	110.9	112.1	112.9	112.9	114.0	115.6
67.5°	93.4	94.6	96.1	96.9	97.7	97.7	98.8	99.2	100.0	100.4	101.2
70°	83.3	84.8	86.4	87.2	87.6	88.3	88.7	88.7	89.5	89.9	90.7
72.5°	75.9	77.4	78.6	78.6	79.4	79.8	79.8	80.2	80.6	81.3	82.1
75°	69.7	70.8	71.6	71.2	71.2	71.2	71.6	71.6	72.4	73.2	73.9
77.5°	63.8	65.0	65.0	64.2	64.2	64.2	64.2	64.6	65.0	65.8	66.5
80°	59.5	59.5	59.1	59.1	58.4	58.0	58.0	58.4	58.4	59.1	60.3
82.5°	54.9	54.9	54.5	54.1	53.7	53.3	53.3	53.7	54.1	54.5	55.3
85°	50.6	50.6	49.8	49.8	49.4	49.4	49.4	49.4	49.8	50.2	51.0
87.5°	46.3	45.9	45.5	45.1	45.1	45.1	45.1	45.1	45.5	46.3	46.7
90°	42.0	41.6	41.2	41.2	40.9	40.9	41.2	41.2	41.6	42.0	42.4
92.5°	38.1	37.7	37.4	37.4	37.0	37.0	37.4	37.0	37.7	37.7	38.1
95°	34.6	34.2	33.9	33.9	33.9	33.9	33.9	33.9	34.2	34.2	34.6
97.5°	31.5	31.1	30.7	30.7	31.1	30.7	31.1	31.1	31.1	31.5	31.9
100°	28.8	28.4	28.4	28.8	28.4	28.4	28.8	28.8	28.8	28.8	29.2
102.5°	26.5	26.5	26.5	26.5	26.5	26.5	26.9	26.9	26.9	26.9	27.2
105°	24.1	24.5	24.5	24.5	24.9	24.9	24.9	25.3	25.3	25.3	25.3
107.5°	22.6	23.0	23.0	23.3	23.3	23.7	23.7	23.7	23.7	24.1	24.1
110°	21.0	21.4	21.8	22.2	22.2	22.6	22.6	22.6	22.6	22.6	22.6



TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	19.5	19.8	20.2	21.0	21.4	21.4	21.4	21.4	21.8	21.8	21.4
115°	17.9	18.7	19.1	19.8	20.2	20.2	20.6	20.6	20.6	20.6	20.2
117.5°	16.3	17.5	17.9	18.7	19.1	19.1	19.5	19.5	19.5	19.5	19.1
120°	15.2	16.0	16.7	17.1	17.5	17.9	17.9	18.3	18.3	18.3	17.9
122.5°	14.0	14.8	15.6	16.0	16.3	16.7	16.7	16.7	16.7	16.7	16.7
125°	12.5	13.2	14.0	14.4	14.8	15.2	15.2	15.6	15.6	15.6	15.2
127.5°	11.3	12.1	12.5	13.2	13.6	13.6	14.0	14.0	14.0	14.0	13.6
130°	9.7	10.5	11.3	11.7	12.1	12.1	12.5	12.5	12.5	12.5	12.5
132.5°	8.6	9.3	9.7	10.5	10.5	10.9	10.9	11.3	11.3	11.3	10.9
135°	7.8	8.2	8.6	9.3	9.3	9.7	9.7	9.7	9.7	9.7	9.7
137.5°	7.0	7.4	7.8	8.2	8.2	8.6	8.6	8.6	8.6	9.0	8.6
140°	5.8	6.6	7.0	7.0	7.4	7.4	7.4	7.8	7.8	7.8	7.4
142.5°	5.1	5.4	5.8	6.2	6.6	6.6	6.6	6.6	7.0	6.6	6.6
145°	3.9	4.7	5.1	5.4	5.8	5.8	5.8	5.8	5.8	5.8	5.8
147.5°	3.1	3.5	4.3	4.7	4.7	5.1	5.1	5.1	5.1	5.1	5.1
150°	2.7	2.7	3.5	3.9	4.3	4.3	4.3	4.3	4.3	4.3	4.3
152.5°	1.9	2.3	2.7	3.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5
155°	1.9	1.9	2.3	2.3	2.7	2.7	2.7	2.7	3.1	2.7	2.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	750.3	749.9	751.4	749.9	742.1	745.2	744.0	748.3	748.7	749.9	753.8
5°	746.4	746.4	748.3	746.8	739.4	742.5	742.1	746.4	747.2	747.9	752.2
7.5°	738.6	739.0	741.7	740.5	732.8	737.4	737.0	742.1	743.6	745.2	749.1
10°	731.2	730.8	733.9	732.8	725.4	730.8	730.4	735.5	737.8	740.5	745.2
12.5°	727.3	726.1	727.3	726.1	718.0	722.2	722.6	728.5	731.2	734.7	740.1
15°	727.3	725.4	725.4	723.0	713.7	716.4	716.8	720.7	724.2	727.7	734.3
17.5°	726.5	724.6	724.2	722.2	712.1	712.1	711.7	714.5	716.4	719.9	726.9
20°	722.2	721.5	721.1	719.9	710.6	709.0	708.2	708.2	709.4	710.6	717.6
22.5°	711.0	711.7	712.5	713.3	705.9	703.2	703.6	702.8	701.6	701.6	707.5
25°	689.9	693.8	697.0	700.5	696.2	694.2	696.6	695.4	693.4	691.9	697.0
27.5°	656.5	664.7	671.3	679.8	680.2	678.7	684.9	684.1	683.7	681.4	685.3
30°	610.2	623.0	632.0	644.4	654.9	656.5	667.0	668.5	670.1	668.9	672.8
32.5°	554.1	571.6	586.8	606.3	616.4	625.3	640.1	646.4	652.6	654.5	658.8
35°	493.0	512.9	530.8	552.2	568.1	587.6	605.5	614.8	628.9	634.3	640.5
37.5°	435.1	453.7	471.2	492.7	518.3	538.6	560.8	581.8	600.8	608.6	618.0
40°	383.7	398.9	415.6	434.3	457.6	484.1	508.2	537.4	560.0	575.5	589.2
42.5°	344.8	352.2	366.6	383.3	402.0	428.8	453.3	486.0	513.3	535.5	558.0
45°	310.1	313.6	324.2	333.1	352.2	375.9	402.0	433.9	462.3	490.7	517.9
47.5°	280.6	284.9	289.9	295.4	309.0	328.8	351.4	380.2	408.6	441.7	472.8
50°	260.7	261.9	262.7	265.0	273.2	286.8	305.1	329.6	356.8	392.3	425.3
52.5°	243.2	243.2	240.9	239.7	242.8	251.4	261.9	279.4	307.4	340.1	375.1
55°	224.5	221.0	220.3	216.4	217.1	221.0	226.1	239.7	262.7	290.7	324.5
57.5°	198.5	196.9	196.9	195.3	192.2	194.2	195.3	205.1	221.4	245.5	275.1
60°	168.5	167.7	169.7	170.1	167.3	168.5	168.1	173.9	185.6	205.1	229.6
62.5°	138.5	142.0	142.4	144.0	142.4	142.0	144.0	149.0	154.9	169.7	188.7
65°	116.4	118.3	118.7	120.6	119.9	119.9	121.4	125.3	128.8	138.9	153.7
67.5°	102.0	101.2	101.6	102.7	101.6	101.2	102.3	104.7	107.4	113.6	124.1
70°	90.7	89.9	89.9	89.9	88.3	87.2	87.6	88.3	89.5	93.0	99.6
72.5°	82.1	82.1	80.9	79.8	78.6	77.8	77.0	76.3	75.9	77.0	80.6
75°	74.3	74.7	74.3	73.2	71.6	70.0	68.5	66.9	65.0	64.2	64.6
77.5°	67.3	67.7	68.1	67.7	66.2	64.2	61.9	59.5	56.8	54.1	52.5
80°	61.1	61.9	62.3	61.9	60.7	59.1	56.4	53.7	49.8	46.3	42.4
82.5°	55.6	56.8	57.2	57.2	56.4	54.9	51.8	48.6	44.4	39.7	34.6
85°	51.4	52.1	52.9	52.9	52.5	51.0	47.9	44.4	40.1	34.6	29.2
87.5°	47.1	47.5	48.3	49.0	48.3	46.7	44.0	40.1	35.8	30.4	24.1
90°	42.8	43.2	44.0	44.8	44.4	42.8	40.5	37.0	32.3	26.5	20.2
92.5°	38.5	39.3	39.7	40.1	40.5	39.3	37.4	33.9	29.2	23.3	17.5
95°	35.4	35.4	36.2	36.6	37.0	35.8	34.2	30.7	26.5	21.0	15.2
97.5°	32.3	32.3	33.1	33.1	33.5	32.7	31.1	28.0	23.7	18.7	12.8
100°	29.2	29.6	30.0	30.4	30.4	30.0	28.4	25.3	21.4	16.7	11.3
102.5°	27.2	27.2	27.6	27.6	28.0	27.2	25.7	23.0	19.1	14.8	9.7
105°	25.3	25.3	25.7	25.7	25.3	24.5	23.0	20.6	17.1	12.8	8.6
107.5°	23.7	23.7	23.7	23.7	23.3	22.6	21.0	18.3	15.2	11.7	7.8
110°	22.6	22.2	22.2	21.8	21.4	20.2	18.7	16.3	13.6	10.1	6.6

TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	21.4	21.0	20.6	20.2	19.5	18.3	16.7	14.8	12.1	9.0	5.8
115°	20.2	19.8	19.5	18.7	17.9	16.7	15.2	13.2	10.5	7.8	5.1
117.5°	19.1	18.7	17.9	17.1	16.3	15.2	13.6	11.7	9.3	7.0	4.7
120°	17.5	17.1	16.7	16.0	15.2	13.6	12.1	10.5	8.2	6.2	3.9
122.5°	16.3	16.0	15.2	14.8	13.6	12.5	10.9	9.3	7.4	5.4	3.5
125°	14.8	14.4	14.0	13.2	12.5	10.9	9.7	8.2	6.6	4.7	2.7
127.5°	13.6	13.2	12.5	11.7	10.9	9.7	8.6	7.4	5.8	3.9	2.7
130°	12.1	11.7	11.3	10.5	9.7	8.6	7.8	6.2	5.1	3.5	2.3
132.5°	10.5	10.5	10.1	9.3	8.6	7.8	6.6	5.4	4.3	3.1	1.9
135°	9.7	9.3	9.0	8.2	7.8	6.6	5.8	4.7	3.5	2.7	1.6
137.5°	8.6	8.2	7.8	7.4	6.6	5.8	5.1	3.9	3.1	2.3	1.6
140°	7.4	7.0	7.0	6.2	5.8	5.1	4.3	3.5	2.7	1.9	1.2
142.5°	6.6	6.2	5.8	5.4	5.1	4.3	3.5	2.7	2.3	1.6	1.2
145°	5.8	5.4	5.1	4.7	4.3	3.5	3.1	2.3	1.9	1.6	1.2
147.5°	4.7	4.7	4.3	3.9	3.5	3.1	2.7	2.3	1.6	1.2	0.8
150°	3.9	3.9	3.5	3.1	3.1	2.7	2.3	1.9	1.6	1.2	0.8
152.5°	3.5	3.1	3.1	2.7	2.7	2.3	1.9	1.6	1.2	1.2	0.8
155°	2.7	2.7	2.7	2.3	2.3	1.9	1.6	1.6	1.2	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	754.5	749.9	753.8	760.8	760.0	759.2	758.4	760.0	765.1	762.3	758.0
5°	753.4	748.7	753.0	759.6	759.2	758.0	757.3	758.8	763.9	761.2	756.5
7.5°	751.0	746.8	749.9	756.5	756.5	755.7	754.9	756.5	761.2	758.8	754.2
10°	747.2	744.0	747.2	753.4	753.8	752.2	751.4	753.4	758.0	756.9	753.0
12.5°	744.0	740.9	744.4	750.7	751.0	749.5	748.3	750.7	756.9	757.7	756.5
15°	739.8	737.0	741.3	747.9	747.9	746.8	746.8	749.9	758.4	761.9	763.9
17.5°	733.5	731.6	736.6	743.3	743.6	742.9	743.3	749.5	760.8	769.3	774.8
20°	725.7	725.0	730.4	737.4	738.6	739.0	740.9	750.3	765.8	777.5	783.0
22.5°	716.4	716.8	723.0	730.4	732.0	733.1	737.0	750.3	769.7	782.2	784.5
25°	705.9	707.1	713.7	722.6	724.6	726.9	733.5	750.7	770.9	779.1	775.2
27.5°	694.6	697.0	705.5	714.9	717.2	721.1	729.6	748.3	765.4	765.8	751.4
30°	682.9	685.7	695.8	706.7	710.6	714.5	725.0	742.9	752.2	739.8	714.5
32.5°	669.7	673.6	683.7	697.0	701.6	706.7	717.2	732.4	728.9	702.0	665.8
35°	653.0	658.4	670.1	685.7	689.9	696.6	704.0	707.5	691.9	653.8	612.9
37.5°	632.4	640.5	654.1	672.0	676.7	681.0	682.9	673.2	642.1	600.8	558.4
40°	608.6	621.1	635.9	655.7	660.4	660.4	653.4	632.7	593.4	539.3	492.3
42.5°	579.8	595.0	613.7	633.5	638.2	632.7	616.0	579.8	535.1	474.8	424.9
45°	544.8	565.0	586.0	606.7	609.0	596.9	567.0	521.1	465.8	409.8	362.3
47.5°	503.2	529.6	552.6	575.9	572.8	552.6	512.5	460.4	402.0	349.1	310.9
50°	456.5	487.6	513.3	535.5	528.8	500.8	453.7	399.3	341.3	296.1	264.6
52.5°	406.7	442.5	468.1	486.0	477.1	443.6	391.9	339.7	292.2	251.0	230.0
55°	354.9	391.1	417.5	431.6	419.9	383.7	332.7	285.2	240.5	213.6	201.2
57.5°	304.7	338.6	363.5	374.7	360.0	323.8	276.7	236.6	204.3	181.7	175.5
60°	256.4	284.1	307.8	316.4	300.4	267.0	226.5	194.6	170.8	155.3	152.2
62.5°	211.7	234.3	252.9	259.6	244.0	217.9	182.9	159.2	142.4	134.6	130.8
65°	174.7	188.0	207.0	205.9	196.5	172.4	146.7	130.0	119.1	114.0	111.7
67.5°	137.4	149.4	161.5	163.0	151.4	134.6	117.9	105.8	100.0	97.3	96.1
70°	106.2	115.2	122.6	120.6	114.4	103.9	93.4	86.8	84.4	83.3	83.3
72.5°	82.5	87.2	90.7	88.3	84.4	79.0	73.9	71.2	71.6	72.4	73.2
75°	63.8	65.0	65.8	63.4	62.7	59.1	58.8	59.1	61.5	63.8	65.0
77.5°	49.0	47.5	46.3	44.0	44.4	44.0	45.9	49.0	52.5	56.0	59.1
80°	37.7	34.2	31.5	29.2	30.4	32.3	36.2	40.9	45.5	49.4	53.3
82.5°	29.2	24.1	20.2	17.9	20.2	23.3	28.4	34.2	39.7	44.0	48.3
85°	22.6	16.7	12.1	9.7	12.1	16.7	22.2	28.8	34.6	39.3	43.6
87.5°	17.5	12.1	6.6	3.9	6.6	11.7	17.9	24.1	30.0	35.4	39.7
90°	14.0	8.2	3.1	0.8	3.5	8.2	14.0	20.2	26.1	31.9	36.2
92.5°	11.3	5.8	1.6	0.0	1.9	6.2	11.7	17.5	23.3	28.8	33.1
95°	9.3	4.7	1.2	0.0	1.6	4.7	9.3	15.2	20.6	26.1	29.6
97.5°	7.8	3.5	0.8	0.0	0.8	3.9	7.8	12.8	18.3	23.3	26.9
100°	6.6	3.1	0.8	0.0	0.8	3.1	6.6	11.3	16.0	20.6	24.1
102.5°	5.4	2.3	0.4	0.4	0.4	2.3	5.8	9.7	14.0	18.3	21.8
105°	5.1	1.9	0.4	0.4	0.4	1.9	5.1	8.6	12.5	16.3	19.5
107.5°	4.3	1.6	0.4	0.4	0.4	1.6	4.3	7.4	11.3	14.8	17.5
110°	3.5	1.6	0.4	0.4	0.4	1.6	3.5	6.6	9.7	12.8	15.6



TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	3.1	1.2	0.4	0.4	0.4	1.2	3.1	5.8	8.6	11.7	14.0
115°	2.7	1.2	0.4	0.4	0.4	1.2	2.7	5.1	7.4	10.1	12.5
117.5°	2.3	1.2	0.4	0.4	0.4	0.8	2.3	4.3	6.6	9.0	11.3
120°	1.9	0.8	0.4	0.4	0.4	0.8	1.9	3.9	5.8	7.8	9.7
122.5°	1.9	0.8	0.4	0.4	0.4	0.8	1.6	3.1	5.1	6.6	8.6
125°	1.6	0.8	0.4	0.4	0.4	0.4	1.6	2.7	4.3	5.8	7.4
127.5°	1.6	0.8	0.4	0.4	0.4	0.4	1.2	2.3	3.5	5.1	6.6
130°	1.2	0.8	0.4	0.4	0.4	0.4	0.8	1.9	3.1	4.3	5.4
132.5°	1.2	0.8	0.4	0.4	0.4	0.4	0.8	1.6	2.3	3.5	4.7
135°	1.2	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.9	2.7	3.5
137.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.6	1.9	3.1
140°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6	2.3
142.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.9
145°	0.8	0.4	0.4	0.8	0.8	0.4	0.4	0.8	0.8	1.2	1.6
147.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2
150°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	757.3	748.3	753.0	751.4	753.0	756.9	756.5	755.3	756.1	754.2	752.2
5°	755.7	746.8	751.4	749.5	751.4	755.3	754.5	753.4	754.5	752.2	750.3
7.5°	753.8	745.6	751.0	750.7	754.2	759.2	759.6	759.6	762.3	758.8	757.3
10°	753.8	749.5	756.9	759.6	768.6	775.2	775.9	777.5	782.2	781.4	777.5
12.5°	761.9	761.2	772.1	778.7	786.8	796.2	801.2	802.8	805.9	803.6	802.0
15°	772.4	776.3	788.4	795.8	804.7	811.7	812.9	813.7	816.0	812.5	809.8
17.5°	786.5	788.8	798.5	801.6	807.5	808.6	807.1	803.2	803.2	795.4	793.1
20°	793.1	791.9	795.8	790.7	788.4	781.4	774.8	767.4	767.0	758.8	758.0
22.5°	787.2	779.4	771.3	758.8	753.4	743.3	734.3	730.0	727.3	716.8	714.1
25°	766.6	747.5	735.5	720.7	707.5	695.8	687.2	678.3	669.7	661.2	657.3
27.5°	730.8	712.9	693.4	672.8	654.5	636.6	622.2	613.3	605.1	593.8	588.0
30°	686.8	661.9	640.5	620.7	590.7	568.9	556.9	539.0	532.7	527.7	516.8
32.5°	635.1	605.1	575.9	549.1	518.3	498.1	482.1	468.9	465.0	451.8	448.7
35°	577.9	538.6	505.5	479.0	456.9	432.3	419.1	410.2	402.4	393.4	391.9
37.5°	510.6	475.1	437.8	414.4	396.9	375.9	365.8	359.6	356.1	349.4	348.3
40°	442.8	407.4	381.7	358.4	347.5	336.2	328.8	326.1	324.5	322.2	319.9
42.5°	381.4	350.2	331.9	316.4	311.7	306.3	304.3	305.9	304.3	303.5	303.1
45°	329.2	305.5	292.6	288.0	286.8	285.2	286.8	289.5	289.9	289.1	289.1
47.5°	281.7	270.5	265.0	265.8	267.7	268.9	271.6	275.1	275.9	274.0	274.7
50°	250.6	244.0	242.8	245.9	250.2	251.8	254.9	257.6	257.2	256.4	255.7
52.5°	221.4	219.5	222.6	225.7	230.4	231.1	232.3	233.5	233.1	231.5	230.8
55°	196.9	198.5	201.2	202.4	205.9	205.5	205.9	205.9	204.3	203.5	202.4
57.5°	174.7	175.1	176.7	177.1	179.0	178.2	177.8	177.1	174.7	174.3	173.2
60°	152.2	151.4	154.9	152.2	153.7	152.2	151.8	149.8	147.5	147.1	146.3
62.5°	130.8	129.2	131.5	130.4	131.1	129.6	128.8	126.5	124.5	124.1	123.7
65°	111.7	110.9	113.2	112.9	113.6	111.7	110.9	109.3	107.8	107.4	107.0
67.5°	95.7	97.7	98.8	98.8	99.6	99.2	97.3	96.9	96.5	95.0	95.0
70°	84.1	85.2	87.6	87.9	87.6	88.3	86.8	86.4	86.0	85.2	84.8
72.5°	74.7	76.3	78.6	79.0	78.6	78.6	77.8	77.4	77.4	76.3	76.3
75°	67.3	69.3	71.2	71.2	71.2	70.4	69.7	69.7	68.9	68.5	67.7
77.5°	61.1	63.4	65.0	64.6	64.2	63.4	63.4	62.3	61.1	61.1	60.3
80°	56.4	58.0	59.1	58.8	58.4	57.2	56.8	55.6	54.9	53.7	53.7
82.5°	51.4	53.3	54.1	53.7	52.9	51.8	51.4	50.6	49.8	49.4	48.6
85°	47.1	49.0	49.4	48.6	47.9	47.1	46.7	46.3	45.9	45.1	45.1
87.5°	42.8	44.8	44.8	44.4	43.6	43.2	42.8	42.4	42.0	41.6	41.2
90°	39.3	40.9	40.9	40.5	40.1	39.7	39.3	38.9	38.5	38.1	38.1
92.5°	35.8	37.4	37.4	37.0	36.6	36.2	36.2	35.8	35.4	35.0	34.6
95°	32.7	34.2	34.2	34.2	33.9	33.5	33.5	33.1	32.7	32.7	32.3
97.5°	29.6	31.1	31.1	31.1	30.7	30.4	30.4	30.0	30.0	30.0	29.6
100°	26.9	28.0	28.4	28.4	28.0	28.0	28.0	27.6	27.6	27.6	27.2
102.5°	24.1	25.3	26.1	26.1	26.1	25.7	25.7	25.7	25.7	25.7	25.3
105°	21.8	23.0	23.7	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
107.5°	19.8	21.0	21.8	22.2	22.6	22.6	23.0	23.0	23.0	23.0	23.0
110°	17.9	19.1	20.2	20.6	21.0	21.4	21.4	21.8	21.4	21.4	21.4

TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	16.0	17.5	18.3	19.1	19.5	19.8	20.2	20.2	20.2	20.2	20.2
115°	14.4	16.0	16.7	17.5	18.3	18.7	18.7	19.1	19.1	19.1	18.7
117.5°	12.8	14.4	15.2	16.0	16.3	17.1	17.5	17.5	17.5	17.5	17.1
120°	11.7	12.8	13.6	14.4	15.2	15.6	16.0	16.0	16.0	16.0	16.0
122.5°	10.1	11.3	12.5	13.2	13.6	14.0	14.4	14.4	14.4	14.4	14.4
125°	9.0	10.1	10.9	11.7	12.1	12.8	12.8	12.8	12.8	12.8	12.8
127.5°	7.8	9.0	9.7	10.5	10.9	11.3	11.7	11.7	11.7	11.7	11.7
130°	6.6	7.8	8.6	9.3	9.7	10.1	10.1	10.5	10.5	10.5	10.5
132.5°	5.8	6.6	7.4	8.2	8.6	9.0	9.0	9.3	9.3	9.3	9.3
135°	4.7	5.8	6.2	7.0	7.4	7.8	7.8	8.2	8.2	8.2	8.2
137.5°	3.9	4.7	5.4	6.2	6.6	6.6	7.0	7.0	7.4	7.4	7.4
140°	3.1	3.5	4.7	5.1	5.4	5.8	6.2	6.2	6.2	6.2	6.2
142.5°	2.3	3.1	3.5	4.3	4.7	5.1	5.4	5.4	5.4	5.4	5.4
145°	1.9	2.3	2.7	3.5	3.9	4.3	4.7	4.7	4.7	4.7	4.7
147.5°	1.6	1.9	2.3	2.7	3.1	3.5	3.9	3.9	3.9	3.9	3.9
150°	1.2	1.6	1.9	1.9	2.3	2.7	3.1	3.5	3.5	3.5	3.5
152.5°	1.2	1.2	1.6	1.6	1.9	2.3	2.7	2.7	2.7	2.7	2.7
155°	0.8	1.2	1.2	1.2	1.6	1.6	1.9	2.3	2.3	2.3	2.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	753.4	754.9	754.2	753.0	752.6	754.5	752.6	743.6	747.2	747.5	750.3
5°	752.2	753.4	752.6	751.8	750.7	753.0	750.7	741.3	744.8	745.2	747.9
7.5°	760.0	760.4	760.4	758.4	755.3	756.5	753.4	742.9	744.8	744.8	746.8
10°	779.4	780.2	781.4	776.3	772.4	769.3	765.1	752.2	751.8	748.7	748.7
12.5°	804.7	802.8	800.9	798.5	795.4	791.5	785.3	770.1	765.1	760.0	754.9
15°	812.1	811.4	811.0	809.8	807.9	806.7	802.0	786.8	779.4	773.2	764.3
17.5°	792.7	794.2	799.3	799.7	802.0	806.7	805.9	795.4	788.8	786.1	775.2
20°	757.7	758.0	764.3	767.0	777.1	784.9	790.7	789.6	788.0	791.1	783.0
22.5°	715.6	718.4	725.0	729.2	739.0	747.9	757.3	762.3	770.5	783.3	781.8
25°	658.4	661.9	671.3	678.3	691.9	705.5	718.0	726.9	736.6	761.2	769.3
27.5°	589.9	595.4	607.4	614.5	633.5	647.5	665.4	682.9	696.6	724.6	741.3
30°	517.9	522.6	535.5	545.2	561.5	580.6	603.2	628.1	650.6	679.1	700.1
32.5°	450.6	455.7	466.2	474.8	493.0	509.0	533.9	564.6	585.7	625.0	653.0
35°	391.9	396.5	403.9	411.3	426.5	442.8	464.2	494.2	521.1	561.9	597.3
37.5°	350.6	351.4	355.7	360.0	371.2	383.7	400.4	426.9	451.8	495.8	534.7
40°	321.0	321.0	323.4	324.5	329.6	337.0	347.5	368.1	388.8	422.2	469.7
42.5°	302.8	302.0	302.0	302.4	302.0	305.5	311.7	321.4	339.7	367.3	404.3
45°	289.1	287.6	286.4	283.7	282.1	282.1	282.5	286.0	296.5	314.4	344.4
47.5°	274.0	273.6	271.6	268.5	265.8	263.8	260.7	259.6	262.7	272.8	293.0
50°	256.4	254.5	252.6	250.2	247.1	245.2	239.3	239.7	237.0	241.7	252.2
52.5°	230.8	229.2	228.4	226.5	225.3	224.5	219.9	215.2	214.0	214.8	218.7
55°	202.4	203.1	200.0	201.6	201.2	197.7	195.7	192.2	191.1	190.7	192.6
57.5°	172.8	173.6	171.6	173.2	173.2	171.2	170.1	170.1	167.3	165.0	167.7
60°	145.9	144.4	145.5	147.5	147.5	146.3	145.5	145.5	143.6	142.8	144.8
62.5°	124.1	122.6	123.7	125.7	126.1	125.3	124.5	124.5	122.2	122.2	123.7
65°	107.4	107.8	107.4	109.0	109.0	109.3	108.6	107.8	105.1	106.2	105.8
67.5°	95.3	95.0	95.0	96.5	96.1	96.9	96.1	95.0	93.0	91.4	91.1
70°	85.2	84.8	84.8	85.6	86.0	86.0	85.6	84.8	82.1	80.6	79.4
72.5°	76.3	75.9	76.3	76.7	77.0	77.4	77.0	76.3	73.9	72.0	70.0
75°	68.1	67.7	68.9	68.9	69.3	69.3	69.7	69.3	67.3	65.0	62.7
77.5°	59.9	60.3	61.5	61.9	62.7	63.0	63.4	63.4	61.5	59.5	56.4
80°	53.3	54.1	54.9	55.3	56.0	57.2	57.6	58.0	56.4	54.5	51.0
82.5°	48.6	49.0	49.8	50.2	51.4	51.8	52.1	52.9	52.1	50.2	46.3
85°	44.8	45.1	45.9	45.9	46.7	47.5	47.9	48.3	47.9	45.9	42.0
87.5°	41.2	41.6	42.0	42.4	42.8	43.2	43.6	44.0	43.6	41.6	38.1
90°	38.1	38.1	38.5	38.5	38.9	39.3	40.1	40.1	39.7	38.1	34.6
92.5°	34.6	35.0	35.0	35.4	35.8	36.2	36.6	36.6	36.2	34.6	31.5
95°	32.3	32.3	32.7	32.7	33.1	33.1	33.5	33.5	33.1	31.5	28.4
97.5°	29.6	29.6	29.6	29.6	30.0	30.0	30.4	30.4	30.0	28.4	25.7
100°	27.2	27.2	27.2	27.2	27.2	27.6	27.6	27.6	27.2	25.7	23.0
102.5°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	24.5	23.3	20.6
105°	24.1	24.1	24.1	23.7	23.7	23.7	23.3	23.3	22.2	21.0	18.7
107.5°	22.6	22.6	22.6	22.2	22.2	21.8	21.4	21.4	20.2	19.1	16.7
110°	21.4	21.4	21.4	21.0	20.6	20.2	19.8	19.5	18.3	16.7	14.8



TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	20.2	20.2	19.8	19.8	19.5	19.1	18.3	17.9	16.7	15.2	13.2
115°	18.7	18.7	18.7	18.3	17.9	17.5	17.1	16.3	15.2	13.6	11.7
117.5°	17.1	17.1	17.1	16.7	16.3	16.0	15.6	14.8	13.6	12.1	10.5
120°	15.6	15.6	15.6	15.2	14.8	14.4	14.0	13.2	12.1	10.9	9.0
122.5°	14.4	14.4	14.0	13.6	13.2	12.8	12.5	11.7	10.9	9.3	7.8
125°	12.8	12.8	12.5	12.5	12.1	11.7	11.3	10.5	9.3	8.2	7.0
127.5°	11.7	11.3	11.3	11.3	10.9	10.5	9.7	9.3	8.2	7.0	5.8
130°	10.1	10.1	10.1	9.7	9.7	9.3	8.6	7.8	7.0	6.2	5.1
132.5°	9.0	9.0	9.0	9.0	8.6	8.2	7.4	7.0	6.2	5.1	4.3
135°	8.2	8.2	7.8	7.8	7.4	7.0	6.6	5.8	5.1	4.3	3.5
137.5°	7.0	7.0	7.0	6.6	6.6	6.2	5.4	5.1	4.7	3.9	3.1
140°	6.2	6.2	5.8	5.8	5.4	5.4	5.1	4.3	3.9	3.1	2.7
142.5°	5.4	5.4	5.1	5.1	4.7	4.7	4.3	3.9	3.1	2.7	1.9
145°	4.7	4.7	4.3	4.3	4.3	3.9	3.5	3.1	2.7	2.3	1.9
147.5°	3.9	3.9	3.9	3.5	3.5	3.1	3.1	2.7	2.3	1.9	1.6
150°	3.5	3.5	3.1	3.1	3.1	2.7	2.3	2.3	1.9	1.6	1.2
152.5°	2.7	2.7	2.7	2.7	2.3	2.3	1.9	1.9	1.6	1.2	1.2
155°	2.3	2.3	2.3	1.9	1.9	1.9	1.6	1.6	1.2	1.2	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	749.1	748.7	752.2	751.8	747.2	754.2	758.8
5°	747.2	746.8	749.9	750.7	745.6	753.0	758.0
7.5°	745.6	745.2	748.7	749.9	744.8	751.4	756.9
10°	746.0	744.0	747.2	747.9	743.3	750.3	754.9
12.5°	748.7	744.0	745.2	745.2	740.9	747.2	752.2
15°	755.3	745.6	744.0	742.9	737.4	743.3	748.3
17.5°	762.7	749.5	744.0	740.1	733.5	738.6	744.0
20°	770.1	753.8	744.8	738.6	729.6	734.3	738.2
22.5°	773.6	757.7	745.6	736.3	725.0	727.3	731.6
25°	768.9	756.1	744.0	732.8	719.1	719.5	723.0
27.5°	751.8	748.3	740.5	729.2	714.5	712.5	715.2
30°	722.6	732.4	732.8	724.6	709.0	705.1	706.3
32.5°	681.8	703.6	716.4	714.9	701.2	695.8	696.6
35°	634.7	661.9	689.9	699.3	689.6	685.3	683.7
37.5°	578.3	614.8	652.2	675.2	673.6	670.9	669.3
40°	516.0	560.0	604.3	640.9	652.2	652.2	653.0
42.5°	449.5	500.8	549.5	595.8	622.2	628.1	630.4
45°	385.2	437.0	489.9	543.2	578.7	596.9	603.6
47.5°	326.9	379.0	429.2	487.6	534.7	558.4	568.9
50°	277.1	316.0	368.9	426.9	478.3	507.4	528.1
52.5°	235.8	266.2	312.5	366.6	418.3	458.4	477.5
55°	201.2	221.8	261.1	307.8	357.2	398.9	421.1
57.5°	172.0	188.3	215.2	254.1	295.7	337.0	360.7
60°	146.3	157.6	175.9	206.6	242.0	277.5	300.4
62.5°	124.1	131.5	143.6	166.2	193.8	221.4	242.8
65°	107.0	110.1	116.7	130.8	151.8	172.8	191.1
67.5°	90.3	92.2	97.3	105.8	116.4	131.5	143.6
70°	77.8	77.8	78.2	83.3	88.7	98.5	107.0
72.5°	67.7	66.5	64.2	65.4	66.5	72.0	77.4
75°	59.5	56.8	52.9	51.4	50.6	51.4	54.5
77.5°	52.5	48.6	44.0	40.1	37.0	35.8	38.5
80°	46.7	42.0	36.6	31.5	26.5	23.7	24.9
82.5°	42.0	36.2	30.4	24.5	18.7	14.8	14.8
85°	37.0	31.5	25.3	19.1	13.2	8.2	7.4
87.5°	33.5	27.6	21.0	15.2	9.3	4.3	2.3
90°	30.0	24.1	17.9	12.1	6.6	1.9	0.0
92.5°	26.9	21.4	15.6	9.7	4.7	1.2	0.0
95°	24.1	19.1	13.2	8.2	3.9	0.8	0.4
97.5°	21.4	16.7	11.7	6.6	2.7	0.8	0.4
100°	19.5	14.8	10.1	5.4	2.3	0.4	0.4
102.5°	17.1	13.2	8.6	4.7	1.9	0.4	0.4
105°	15.2	11.7	7.4	3.9	1.6	0.4	0.4
107.5°	13.6	10.1	6.6	3.5	1.6	0.4	0.4
110°	12.1	9.0	5.8	3.1	1.2	0.4	0.4

TEST NUMBER: P1214018

CATALOG NUMBER: 2SNLED-LD5-18SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	10.9	7.8	5.1	2.7	0.8	0.4	0.4
115°	9.3	7.0	4.3	2.3	0.8	0.4	0.4
117.5°	8.2	5.8	3.9	1.9	0.8	0.4	0.4
120°	7.0	5.1	3.1	1.6	0.4	0.4	0.4
122.5°	6.2	4.3	2.7	1.6	0.4	0.4	0.4
125°	5.4	3.9	2.3	1.2	0.4	0.4	0.4
127.5°	4.7	3.1	1.9	0.8	0.4	0.4	0.4
130°	3.9	2.7	1.6	0.8	0.4	0.4	0.4
132.5°	3.1	2.3	1.6	0.8	0.4	0.4	0.4
135°	2.7	1.9	1.2	0.8	0.4	0.4	0.4
137.5°	2.3	1.6	0.8	0.8	0.8	0.4	0.4
140°	1.9	1.2	0.8	0.8	0.8	0.8	0.4
142.5°	1.6	1.2	0.8	0.8	0.8	0.8	0.4
145°	1.2	0.8	0.8	0.8	0.8	0.8	0.4
147.5°	1.2	0.8	0.8	0.8	0.8	0.8	0.4
150°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)